

CLAIMS

1. Tool for soil cultivating machine, such as a weeding machine, hoeing machine, vineyard plow, including a rotor on which interchangeable tools are mounted, wherein it comprises:

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a fixing end located in an upper space zone (Z1), this end being arranged or configured so that it can be mounted with freedom of pivoting;

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a connecting portion located in an intermediate space zone (Z2), this intermediate portion extending downwardly from said fixing end; and

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an active portion located in a lower space zone (Z3).

2. Tool according to claim 1; wherein said connecting portion has an inclined position with respect to the fixing end and to the active portion, such that the latter are distant from one another, both in the vertical direction and in the horizontal direction.

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3. Tool according to claim 1, wherein its upper fixing end is constituted by a ring enabling said tool to be fixed about a journal axle.

4. Tool according to any of claims 1-3, wherein its lower active portion extends forwardly, considering the direction of rotation thereof, from the distal end of the intermediate connecting portion of said tool.

5. Tool according to one of claims 1-3, wherein the sharp leading edge of its lower active portion is curved, and wherein said active portion extends rearwardly, considering the direction of rotation of said tool during operation.

6. Tool according to any of claims 1-5, wherein its active portion is inclined forwardly, such that the lower surface of its rear portion is positioned at a higher level than that at which the lower surface of its working front portion is located.

5 7. Tool according to any of claims 1-4 or 6, wherein the upper surface of the active lower portion comprises a boss located after its front portion, at a distance from the leading edge.

10 8. Soil cultivating machine including a rotor rotating about a vertical or substantially vertical axis (A-A) and provided, at its periphery, with interchangeable tools, wherein these tools are obtained according to any of claims 1-7, and wherein said rotor is arranged so as to enable said tools to be mounted with freedom of pivoting during operation.

9. Soil cultivating machine according to claim 8, wherein the fixing end of the tools and the tool-carrying rotor are arranged so as to allow a free pivoting or retraction of said tools on an angle on the order of 45°-65° toward the rear, from the position occupied by the latter when the rotor rotates without encountering any resistance.

15 10. Soil cultivating machine according to one of claims 8 or 9, wherein the rotor and the journal end of said tools are arranged so as to enable these tools to be mounted with freedom of pivoting, under such conditions that when the latter are installed on the rotor, their pivoting axes (B-B) converge downwardly, toward the axis of rotation (A-A) of the latter, by forming an angle (β) with said axis of rotation (A-A).